

CLAIMS

What is claimed is:

- 1 1. A method for matching customer requirements communicated from a
2 customer to a corresponding software design, the method comprising:
3 gathering the customer requirements communicated from the customer;
4 generating a machine-readable transcript of the customer requirements;
5 running a lexical analysis of said machine-readable transcript, said lexical
6 analysis thereby generating an output therefrom, said output including one or more
7 diagrammed sentences;
8 mapping said output of said lexical analysis into object-oriented
9 constructs; and
10 creating a high-level language design from an output of said mapping.
- 1 2. The method of claim 1, wherein:
2 the customer requirements are communicated orally; and
3 said machine-readable transcript of the customer requirements is generated
4 with voice recognition software.
- 1 3. The method of claim 1, wherein:
2 the customer requirements are communicated in writing; and
3 said machine-readable transcript of the customer requirements is generated
4 with optical character recognition software.
- 1 4. The method of claim 1, wherein said machine-readable transcript of the
2 customer requirements is generated from a computer file.

1 5. The method of claim 1, wherein said mapping said output of said lexical
2 analysis into object-oriented constructs further comprises:
3 mapping nouns from said lexical analysis to objects; and
4 mapping verbs from said lexical analysis to process flows between said
5 objects.

1 6. The method of claim 5, wherein said mapping said output of said lexical
2 analysis into object-oriented constructs further comprises:
3 mapping pronouns from said lexical analysis to said nouns antecedent
4 thereto;
5 mapping adjectives from said lexical analysis to said nouns; and
6 mapping prepositions from said process flows between said objects.

1 7. The method of claim 1, wherein said high-level language design is created
2 in a language selected from the group consisting of C++, Java, and ADA.

1 8. The method of claim 1, further comprising:
2 implementing a first-order predicate calculus analysis of said machine-
3 readable transcript, said first-order predicate calculus used for additional mapping into
4 said object-oriented constructs.

1 9. A storage medium encoded with a machine readable computer program
 2 code for matching customer requirements communicated from a customer to a
 3 corresponding software design, the storage medium including instructions for causing a
 4 computer to implement a method, the method comprising:
 5 gathering the customer requirements communicated from the customer;
 6 generating a machine-readable transcript of the customer requirements;
 7 running a lexical analysis of said machine-readable transcript, said lexical
 8 analysis thereby generating an output therefrom, said output including one or more
 9 diagrammed sentences;
 10 mapping said output of said lexical analysis into object-oriented
 11 constructs; and
 12 creating a high-level language design from an output of said mapping.

1 10. The storage medium of claim 9, wherein:
 2 the customer requirements are communicated orally; and
 3 said machine-readable transcript of the customer requirements is generated
 4 with voice recognition software.

1 11. The storage medium of claim 9, wherein:
 2 the customer requirements are communicated in writing; and
 3 said machine-readable transcript of the customer requirements is generated
 4 with optical character recognition software.

1 12. The storage medium of claim 9, wherein said machine-readable transcript
 2 of the customer requirements is generated from a computer file.

1 13. The storage medium of claim 9, wherein said mapping said output of said
2 lexical analysis into object-oriented constructs further comprises:
3 mapping nouns from said lexical analysis to objects; and
4 mapping verbs from said lexical analysis to process flows between said
5 objects.

1 14. The storage medium of claim 13, wherein said mapping said output of said
2 lexical analysis into object-oriented constructs further comprises:
3 mapping pronouns from said lexical analysis to said nouns antecedent
4 thereto;
5 mapping adjectives from said lexical analysis to said nouns; and
6 mapping prepositions from said process flows between said objects.

1 15. The storage medium of claim 9, wherein said high-level language design is
2 created in a language selected from the group consisting of C++, Java, and ADA.

1 16. The storage medium of claim 9, further comprising:
2 implementing a first-order predicate calculus analysis of said machine-
3 readable transcript, said first-order predicate calculus used for additional mapping into
4 said object-oriented constructs.

1 17. A computer data signal for matching customer requirements
2 communicated from a customer to a corresponding software design, the computer data
3 signal comprising code configured to cause a processor to implement a method, the
4 method comprising:
5 gathering the customer requirements communicated from the customer;
6 generating a machine-readable transcript of the customer requirements;
7 running a lexical analysis of said machine-readable transcript, said lexical
8 analysis thereby generating an output therefrom, said output including one or more
9 diagrammed sentences;
10 mapping said output of said lexical analysis into object-oriented
11 constructs; and
12 creating a high-level language design from an output of said mapping.

1 18. The computer data signal of claim 17, wherein:
2 the customer requirements are communicated orally; and
3 said machine-readable transcript of the customer requirements is generated
4 with voice recognition software.

1 19. The computer data signal of claim 17, wherein:
2 the customer requirements are communicated in writing; and
3 said machine-readable transcript of the customer requirements is generated
4 with optical character recognition software.

1 20. The computer data signal of claim 17, wherein said machine-readable
2 transcript of the customer requirements is generated from a computer file.

1 21. The computer data signal of claim 17, wherein said mapping said output of
2 said lexical analysis into object-oriented constructs further comprises:
3 mapping nouns from said lexical analysis to objects; and
4 mapping verbs from said lexical analysis to process flows between said
5 objects.

1 22. The computer data signal of claim 21, wherein said mapping said output of
2 said lexical analysis into object-oriented constructs further comprises:
3 mapping pronouns from said lexical analysis to said nouns antecedent
4 thereto;
5 mapping adjectives from said lexical analysis to said nouns; and
6 mapping prepositions from said process flows between said objects.

1 23. The computer data signal of claim 17, wherein said high-level language
2 design is created in a language selected from the group consisting of C++, Java, and
3 ADA.

1 24. The computer data signal of claim 17, further comprising:
2 implementing a first-order predicate calculus analysis of said machine-
3 readable transcript, said first-order predicate calculus used for additional mapping into
4 said object-oriented constructs.